In the Claims

Please amend the claims as follows:

Claims 1-22 (Canceled)

23. (currently amended) Method A method for conditioning cooled used moulding sand

retaining moulding sand binder in a mixer (1), wherein the cooled used moulding sand is heated

to at least a minimum temperature, moisturized by providing water or water vapor through holes

in an agitator and subsequently cooled in the mixer from the minimum temperature using the

effect of a vacuum in the mixer.

24. (currently amended) Method A method according to Claim 23, wherein a desired

minimum temperature T_{min} is determined, the starting temperature T_{ist} of the moulding sand is

determined, and the moulding sand is heated when $T_{ist} < T_{min}$.

25. (currently amended) Method A method according to Claim 23, wherein the cooled used

moulding sand is heated before it is placed in the mixer (1).

26. (currently amended) Method A method according to Claim 23, wherein the cooled used

moulding sand is heated in combination with unused moulding sand to at least the minimum

temperature in the mixer (1) prior to application of the vacuum.

27. (currently amended) Method A method according to Claim 23, wherein the moulding

sand is heated with the aid of hot air or microwaves.

28. (currently amended) Method A method according to Claim 23, wherein the moulding

sand is heated by addition of hot water.

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29. (currently amended) Method A method according to Claim 23, wherein the moulding

sand is heated by addition of hot water vapour (12).

30. (currently amended) Method A method according to Claim 29, wherein the temperature

of the moulding sand is increased to at least the minimum temperature T_{min} by addition of hot

water vapour (12).

31. (currently amended) Method A method according to Claim 23, wherein processing

water (4) is added to obtain a desired minimum moisture.

32. (currently amended) Method A method according to Claim 30, wherein the moisture

content of the moulding sand is sensed (14) enough water (4) is added as is necessary for cooling

of the moulding sand in a vacuum and so that a quantity of water remains in the moulding sand

for the moulding sand to obtain a desired moisture content in finished sand.

33. (currently amended) Method A method according to Claim 29, wherein water in vapour

or liquid form added for heating the moulding sand is at least in part additionally used for

moistening the moulding sand.

34. (currently amended) Method A method according to Claim 33, wherein excess water in

the moulding sand is regulated by evaporation in a vacuum to a desired final moisture.

35. (currently amended) Method A method according to Claim 29, wherein the amount of

water vapour or water added to the moulding sand to heat it is determined dependent upon the

temperature T_{ist} of the moulding sand and the desired minimum temperature T_{min} .

36. (currently amended) Method A method according to Claim 29, wherein the amount of

water vapour added to the moulding sand to heat it is obtained by setting a pressure in the mixer

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such that a boiling temperature of the water at the set pressure corresponds to the desired

minimum temperature, and water vapour is supplied until the pressure increases or the

temperature in a suction line (6) shows an accelerated increase.

37. (currently amended) Method A method according to Claim 23, wherein hot water or hot

water vapour is supplied to the mixer below the surface of the moulding sand to heat the sand to

at least the minimum temperature.

38. (currently amended) Method A method according to Claim 23, wherein moulding sand

below the minimum temperature is heated by mixing with hot moulding sand.

39. (currently amended) Apparatus for conditioning moulding sand comprising a mixing

container, a rotatable mixing agitator and a mixing agitator drive suitable for mixing moulding

sand in the mixing container, a mixing container, means for vacuum sealing the mixing

container, means for providing a vacuum in the mixing chamber, means for feeding components

to be mixed to the mixer, means for supplying hot water or hot water vapour to components in

the mixing chamber through a plurality of holes in the agitator facing away from a direction of

rotation of the agitator, valves for stopping the flows of hot water and vapour to the mixing

chamber, means for vacuum sealing the mixing container, means for providing a vacuum in the

mixing chamber after the flows are stopped to cool the contents of the mixing chamber and

remove moisture by vacuum evaporation, and means for removing mixed components from the

mixing chamber.

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40. (currently amended) Apparatus according to Claim 39, wherein the means for adding

hot water vapour or hot water comprises the agitator providing a vacuum can provide a vacuum

to below the vapor pressure of water.

41. (currently amended) Apparatus according to Claim 40, wherein the agitator includes

apertures through which hot water vapour or hot water is provided during agitator rotation

comprises fins, blades or a wall scraper.

42. (previously presented) Apparatus according to Claim 40, wherein the mixing container

does not rotate, and orifices are provided through a wall of the container for the addition of hot

water vapour and/or water.

43. (currently amended) Apparatus according to Claim 39, wherein the mixing container

rotates and a conduit is provided for the addition of hot water vapour to the mix.

44. (currently amended) Apparatus A method according to Claim 39 23, wherein the

conduit is provided in a wall scraper vacuum is below the vapor pressure of water.

45. (cancelled)